| SULFIDE BY METHYLENE BLUE METHOD ADDITIONAL QC REQUIREMENTS FOR THIS METHOD: Certified or Accredited laboratories using this method are assessed to applicable requirements of SM 1020 and SM 4020. | | | | | | | | | |
|--|--------------------------|---|---|-----------------|----------|--|--|--|--|
| Facility Name:VELAP ID | | | | | | | | | |
| Assessor Name:Analyst Name: | | | | Inspection Date | | | | | |
| Relevant Aspect of Standards | Method Reference | Y | N | N/A | Comments | | | | |
| Records Examined: SOP Number/ Revision/ Date Analyst: | | | | | | | | | |
| Sample ID: Date of Sample Preparation: Date of Analysis: | | | | nalysis: | | | | | |
| Were Non-Potable Water samples preserved with zinc acetate plus sodium hydroxide to pH>9; stored at ≤6°C; and held for not longer than 7 days? | 40 CFR 136 Table 1I | | | | | | | | |
| 2) Were solid samples and sediments stored at 4°C or frozen and analyzed within 2 weeks (or 1 month for frozen samples)? | 4500-S ²⁻ A.3 | | | | | | | | |
| 3) If preparing sulfide stock in-house, was solution prepared from sodium sulfide nonahydrate (Na ₂ S · 9H ₂ O) crystals? | 4500-S ²⁻ A.6 | | | | | | | | |
| 4) If preparing sulfide stock in-house, were Na ₂ S · 9H ₂ O crystals kept for no longer than 1 year? | 4500-S ²⁻ A.6 | | | | | | | | |
| 5) If preparing sulfide stock in-house, was reagent water used in standard preparation degassed with argon or nitrogen? | 4500-S ²⁻ A.6 | | | | | | | | |
| 6) If preparing stock in-house, was it standardized using the iodometric method, 4500-S2- F? (Alternatively, purchase precertified stock standard.) | 4500-S ²⁻ A.6 | | | | | | | | |
| 7) Was the concentration of stock solution verified daily using the iodometric method (F)? | 4500-S ²⁻ A.6 | | | | | | | | |
| 8) Are samples that are collected for the determination of <u>dissolved sulfides</u> treated in the field with aluminum chloride, allowed to settle and flocculate, and the clear supernatant collected for analysis of dissolved sulfide? (Step may be omitted if sample contains no suspended matter.) | 4500-S ²⁻ B | | | | | | | | |
| Notes/Comments: | | | | | | | | | |

SULFIDE BY METHYLENE BLUE METHOD SM 4500-S2 D – 2000 (2011)

| 3W 4300-32 D = 2000 (2011) | | | | | | |
|---------------------------------|---|---|---|---|--|--|
| Method Reference | Y | N | N/A | Comments | | |
| 2003 NELAC 5.5.7.3 | | | | | | |
| 4500-S ²⁻ D 2.f | | | | | | |
| 4500-S ²⁻ D 2.f | | | | | | |
| 4500-S ²⁻ D 2.g | | | | | | |
| 4500-S ²⁻ D 3.a | | | | | | |
| 4500-S ²⁻ D 3.a | | | | | | |
| 4500-S ²⁻ D 3.a | | | | | | |
| 4500-S ²⁻ D 3.a | | | | | | |
| 4500-S ²⁻ D 3.a | | | | | | |
| 4500-S ²⁻ D 3.b.1 | | | | | | |
| 4500-S ²⁻ D 3.b.1 | | | | | | |
| 4500-S ²⁻ D 3.b.1 | | | | | | |
| | | | | | | |
| | Reference 2003 NELAC 5.5.7.3 4500-S ²⁻ D 2.f 4500-S ²⁻ D 2.g 4500-S ²⁻ D 3.a 4500-S ²⁻ D 3.a 4500-S ²⁻ D 3.a 4500-S ²⁻ D 3.a 4500-S ²⁻ D 3.a | Reference 2003 NELAC 5.5.7.3 4500-S²- D 2.f 4500-S²- D 2.g 4500-S²- D 3.a 4500-S²- D 3.a | Reference 2003 NELAC 5.5.7.3 4500-S²- D 2.f 4500-S²- D 2.g 4500-S²- D 3.a 4500-S²- D 3.a | Reference 2003 NELAC 5.5.7.3 4500-S²- D 2.f 4500-S²- D 2.g 4500-S²- D 3.a 4500-S²- D 3.a | | |

Virginia Division of Consolidated Laboratory Services- Richmond, VA

| Relevant Aspect of Standards | Method Reference | Υ | N | N/A | Comments |
|--|---------------------------------|---|---|-----|----------|
| 21)For photometric color determination, is the instrument zeroed with treated sample from the second tube? | 4500-S ²⁻ D 3.b.2 | | | | |
| 22)For photometric determination, is sample concentration determined from calibration curve? | 4500-S ²⁻ D 3.b.2 | | | | |
| 23)When samples are pre-treated in the field (flocculation), is the analysis result reported as Dissolved Sulfide? | 2003 NELAC 5.5.10.2.h | | | | |
| Notes/Comments: | L | | | | |